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states:(71) Applicant: **TOSHIBA CORP**(72) Inventor: **YABU TOMOHIKO**

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**(54) FILTRATION DEVICE
USING HOLLOW YARN
MEMBRANE**

(57) Abstract:

PURPOSE: To enable uniform supply of bubbles to a whole body of a hollow yarn membrane filter by providing a short bubbling pipe having second foam pores to above a mother bubbling pipe, and effectively conducting bubbling by feeding foams also to a hollow yarn membrane filter just above the bubbling mother pipe.

CONSTITUTION: A short bubbling pipe 121 is inserted and fixed from above a mother pipe 112 in a bubbling device 111 comprising a mother bubbling pipe 112 and plural branched bubbling pipe 113 branched therefrom, and a top end of the short pipes 121 is closed with a cover body 123 to form plural second foam pores 122 below the closed part. A foot end of the short pipe 121 is opened and extended to the same level position as

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first foam pores 114 formed in the branch pipe 113. When the hollow yarn membrane filter 2 is to be backwashed, a part of the air fed to the mother pipe 112 is fed to a filter 2 just above the mother pipe 112 through the second foam pores 122 of the short pipe 121 in the form of foam, and solid product formed on the surface of the filter 2 is effectively peeled by simultaneously feeding the air from first foam pores 114 of the branch pipe 113 as conventionally performed.

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